JOINT MESSAGEFORM

SECURITY CLASSIFICA [redacted]

SPACE BELOW RESERVED FOR COMMUNICATION CENTER

LMSC B030449
Cy 285

LVII

PRECEDENCE	TYPE MSG (Check)			ACCOUNTING SYMBOL	ORIG. OR REFERS TO	CLASSIFICATION OF REFERENCE
	BOOK	MULTI	SINGLE			
ACTION						
INFO						

FROM:

6595TH AEROSPACE TEST WG, VANDENBERG AFB, CALIF.

TO: SPACE SYSTEMS DIV LOSA CALIF
VWZD-14-12-358

SUBJECT: 8-HOUR FLASH REPORT

1. SUMMARY

A VEHICLE CONSISTING OF SLV-2 BOOSTER NO. 368 AND S-01A ORBITAL STAGE NO. 1156 WAS LAUNCHED ON THE FIRST ATTEMPT FROM VAFB COMPLEX 75-3, PAD 5, AT 1326:07.00 PST ON 14 DEC. 1962. THE PRIMARY LAUNCH OBJECTIVE, TO PLACE THE S-01A SATELLITE WITH PAYLOAD IN AN ORBIT WITHAN INCLINATION ANGLE OF 70 DEG. WAS ACCOMPLISHED. THE VTS RADAR PLOTBOARD INDICATED THE FOLLOWING APPROXIMATE INJECTION CONDITIONS: ALTITUDE, 131 STATUTE MILES; PAD REFERENCED VELOCITY, 25,200 FPS; ELEVATION FLIGHT PATH ANGLE, APPROXIMATELY 0 DEG; AZIMUTH FLIGHT PATH ANGLE, APPROXIMATELY 160 DEG. THE ORBITAL PERIOD ATTAINED APPEARS TO BE NEAR-

SPECIAL INSTRUCTIONS

CLASSIFICATION CHANGED TO [redacted]
By authority of AFR 205-2
12 APR 1966

DOWNGRADED AT 3 YEAR INTERVALS;
DECLASSIFIED AFTER 12 YEARS
DOD DIRECTIVE 5200.10

DATE	TIME
14	1850
MONTH	YEAR
DEC	62

WRITER

SYMBOL

TYPED NAME AND TITLE (Signature, if required)
C. S. WALLER, LT. COL., USAF

PHONE 866-5831 | PAGE NR. 1 | NR. OF PAGES

SECURITY CLASSIFICATION [redacted]

RELEASER

SIGNATURE

TYPED (or stamped) NAME AND TITLE

DD FORM 1 MAY 58 173 REPLACES DD FORM 173, 1 OCT 49, WHICH WILL BE USED UNTIL EXHAUSTED

JOINT MESSAGEFORM - CONTINUATION SHEET | SECURITY CLASSIFICATION [redacted]

FROM: [redacted]

6595 TH AEROSPACE TEST WG, VANDENBERG AFB, CALIF [redacted]

NOMINAL, BASED ON FIRST PASS ACQUISITION.

II. SIGNIFICANT EVENTS

PRELIMINARY VALUES OF SIGNIFICANT LAUNCH EVENTS ARE:

LIFTOFF (1226:07.00 PST)	ZERO
STEERING INITIATED	91.80 SEC
MECO (S1)	146.01 SEC
VECO	154.94 SEC
ENABLE D1 AND D2 (S2)	151.17 SEC
D1 ON	153.88 SEC
D1 OFF	155.30 SEC
D2 ON	155.45 SEC
D2 OFF	160.69 SEC
SEPARATION COMMAND (S2)	161.32 SEC
SEPARATION COMPLETE	163.8 SEC
ULLAGE ROCKET IGNITION	181.6 SEC
S-01A ENGINE IGNITION	191.6 SEC
S-01A THRUST ATTAINMENT (90 PER CENT PC)	192.8 SEC
S-01A BURNOUT (79 PER CENT PC)	433.94 SEC
VTS VERLORT RADAR FADE	444 SEC
VTS ACQUISITION BEACON FADE	475 SEC
VTS TELEMETRY DATA FADE (LINK 1)	483 SEC

SYMBOL | PAGE NR. 2 | NR. OF PAGES | SECURITY CLASSIFICATION [redacted] | INITIALS

DD FORM 1 MAY 55 173-1

U. S. GOVERNMENT PRINTING OFFICE: 1955—930475

JOINT MESSAGEFORM - CONTINUATION SHEET | SECURITY CLASSIFICATION [redacted]

FROM: 6595TH AEROSPACE TEST WG, VANDENBERG AFB, CALIF. [redacted]

III. SLV-2 PERFORMANCE

ALL BOOSTER SUB-SYSTEMS PERFORMED SATISFACTORILY, AND IN RESPONSE TO GROUND GUIDANCE SYSTEM COMMANDS PROVIDED THE REQUIRED COAST APOGEE CONDITIONS.

GROUND GUIDANCE SYSTEM DATA INDICATE THAT BOOSTER COAST APOGEE ALTITUDE WAS 106.82 NM (NOMINAL: 106.82 NM) AND VELOCITY WAS 10,068 FPS (NOMINAL: 10,065 FPS).

IV. S-01A PERFORMANCE

ALL S-01A VEHICLE SUB-SYSTEMS PERFORMED SATISFACTORILY DURING LAUNCH TO PROVIDE ADEQUATE ORBITAL TRAJECTORY CONDITIONS AT ENGINE SHUTDOWN. DISCREPANCIES NOTED WERE AS FOLLOWS:

THE CONSUMPTION OF CONTROL GAS DURING ASCENT WAS SLIGHTLY GREATER THAN NOMINAL FOR S-01A VEHICLES USED IN PROGRAM 162.

AT THE TIME OF SIGNAL FADE AT VTS, ALL VEHICLE SUB-SYSTEMS WERE FUNCTIONING NORMALLY, AND THE ORBITAL TIMER WAS SET AT 5428 SEC (STEP 18) IN THE RESET-ON POSITION, IN THE INCREASE MODE, AND ALTERNATE RE-ENTRY DISARM STATE.

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DD FORM MAY 56 173-1 [redacted] GOVERNMENT PRINTING OFFICE: 1956—930479

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FROM:

6595 TH AEROSPACE TEST WG, VANDENBERG AFB, CALIF. [redacted]

V. GROUND SPACE LINK

POOR TRACKING PERFORMANCE WAS EXPERIENCED BY THE TLM-18 ANTENNA SYSTEM AT LIFTOFF. THE ANTENNA TRACKED THE VEHICLE TM (LINK 1) ON A SIDE LOBE. AS TRACKING PROCEEDED, AN ABNORMAL CONDITION WAS INDICATED BY THE POORNESS OF THE RECEIVED SIGNAL STRENGTH. THE ERROR WAS RECOGNIZED AND THE OPERATOR PROCEEDED TO TRANSFER TO MAIN LOBE TRACKING. DURING THIS TRANSITION DATA WAS LOST FROM 261 SEC TO 313 SEC.

VI. AEROSPACE GROUND EQUIPMENT

THE AEROSPACE GROUND EQUIPMENT FUNCTIONED PROPERLY TO ACCOMPLISH BOOSTER AND ORBITAL STAGE PRE-LAUNCH CHECKOUT.

VI. COUNTDOWN

SLV-2/SLA/369/1156 WAS LAUNCHED ON THE FIRST ATTEMPT. THE COUNTDOWN WAS INITIATED AT 0500 PST. ONE HOLD WAS IMPOSED AT T-15 MIN FROM 1245 TO 1314 DUE TO AN LMSC AGE HELIUM LEAK. THE FOLLOWING PROBLEMS WERE ENCOUNTERED DURING THE COUNTDOWN:

A. TASKS 2 AND 11 WERE DELAYED DUE TO THE USE OF NEW LMSC AGE EQUIPMENT FOR THE FIRST TIME.

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6595TH AEROSPACE TEST WG, VANDENBERG AFB, CALIF. [redacted]

B. TASKS 7 AND 11 WERE DELAYED DUE TO VTS SUPPORT OF THE ORBITAL PASS OF ANOTHER VEHICLE.

C. A HELIUM LEAK OCCURRED IN THE LMEC ACE AND WAS ELIMINATED BY TORQUING THE LDIE FITTINGS.

D. DURING TASK 10 THE MAB GROUND STATION WAS USED TO VERIFY VEHICLE STATUS DUE TO UNAVAILABILITY OF THE VTS.

E. S-61A TM LINK 3 WAS IN ASCENT MODE FOLLOWING TEST PLUG REMOVAL. ORBITAL MODE REQUIREMENT WAS WAIVED BY THE AIR FORCE.

VIII. PAD DAMAGE

PAD DAMAGE IS NOT CONSIDERED EXCESSIVE AND NORMAL TURNAROUND SCHEDULE CAN BE MAINTAINED.